

AUTHOR INDEX

- Ahuja, L.R., *see* Sharpley, A.N. et al.
- Al-Janabi, K., *see* Al-Khafaf, S. et al.
- Al-Khafaf, S., Al-Janabi, K., Hussain, I.A., Manki, F.S. and Saliem, L.H. (Baghdad, Iraq)
Maize root development under various levels of salinity and water distribution 377
- Battikhi, A.M. (Amman, Jordan) and Hill, R.W. (Logan, UT, U.S.A.)
Irrigation scheduling and cantaloupe yield model for the Jordan Valley 177
- Baxter, J.C. (Tempe, AZ, U.S.A.) and Laitos, W.R. (Fort Collins, CO, U.S.A.)
Water control and the maintenance imperative: evidence from Nepal 115
- Bhuiyan, S.I., *see* Galang, A.L.A. and Bhuiyan, S.I.
- Böttcher, J., *see* Strelbel, O. and Böttcher, J.
- Chander, S., *see* Rao, N.H. et al.
- Chang, A.C., *see* El-Mowelhi, N. et al.
- Clothier, B.E., *see* Scotter, D.R. et al.
- Constantz, J. (Menlo Park, CA, U.S.A.)
Distillation irrigation: a low-energy process for coupling water purification and drip
irrigation 253
- Cooper, J.R. (Durant, OK, U.S.A.) and Fouss, J.L. (Baton Rouge, LA, U.S.A.)
Rainfall probability forecasts used to manage a subdrainage-subirrigation system for
watertable control 47
- Dieleman, P.J. (Rome, Italy)
Book review of *Irrigation Development and Planning. An Introduction for Engineers*,
by J.R. Rydzewski (Editor) 207
- Eastham, J. and Rose, C.W. (Brisbane, Qld., Australia)
Pasture evapotranspiration under varying tree planting density in an agroforestry
experiment 87
- El-Bershamgy, A., *see* El-Mowelhi, N. et al.
- El-Mowelhi, N., El-Bershamgy, A. (Giza, Egypt), Hoffman, G.J. (Fresno, CA, U.S.A.) and
Chang, A.C. (Riverside, CA, U.S.A.)
Enhancement of crop yields from subsurface drains with various envelopes 131
- Elliott, R.L., Harp, S.L., Grosz, G.D. and Kizer, M.A. (Stillwater, OK, U.S.A.)
Crop coefficients for peanut evapotranspiration 155
- Fleming, P.M. (Canberra, A.C.T., Australia)
Book review of *Surface Irrigation Theory and Practice*, by W.R. Walker and G.V.
Skogerboe 205
- Flinn, J.C., *see* Palanisami, K. and Flinn, J.C.
- Fouss, J.L., *see* Cooper, J.R. and Fouss, J.L.
- Galang, A.L.A. and Bhuiyan, S.I. (Manilla, The Philippines)
PUMPMOD: A simulation model for multipump rice irrigation systems 333
- Grosz, G.D., *see* Elliott, R.L. et al.
- Guacelly, F.S., *see* Lomax, K.M. et al.
- Harp, S.L., *see* Elliott, R.L. et al.
- Hess, T.M. and Morris, J. (Bedford, Great Britain)
Estimating the value of flood alleviation on agricultural grassland 141
- Hill, R.W., *see* Battikhi, A.M. and Hill, R.W.
- Hoffman, G.J., *see* El-Mowelhi, N. et al.
- Hopmans, J.W. (Wageningen, The Netherlands)
Treatment of spatially variable groundwater levels in one-dimensional stochastic
unsaturated water-flow modelling 19

Hussain, I.A., <i>see</i> Al-Khafaf, S. et al.	
Ingram, K.T. (Los Banos, The Philippines)	
Book review of <i>The Efficient Use of Water in Irrigation: Principles and Practices for Improving Irrigation in Arid and Semiarid Regions</i> , by D. Hillel	311
Kar, S., <i>see</i> Singh, P.V. et al.	
Kizer, M.A., <i>see</i> Elliott, R.L. et al.	
Kohl, R.A., <i>see</i> Rasiah, V. and Kohl, R.A.	
Kowalski, K., <i>see</i> Peralta, R.C. and Kowalski, K.	
Laitos, W.R., <i>see</i> Baxter, J.C. and Laitos, W.R.	
Langdale, G.W., <i>see</i> Mills, W.C. et al.	
Lembke, W.D., <i>see</i> Mostaghimi, S. et al.	
Lomax, K.M., Wood, J.D. and Guacelli, F.S. (Newark, DE, U.S.A.)	
Emission characteristics of porous tubing	197
Manki, F.S., <i>see</i> Al-Khafaf, S. et al.	
McMahon, P.C., <i>see</i> Mostaghimi, S. et al.	
Mills, W.C. (Tifton, GA, U.S.A.), Thomas, A.W. and Langdale, G.W. (Watkinsville, GA, U.S.A.)	
Rainfall retention probabilities computed for different cropping-tillage systems	61
Moolman, J.H. (Stellenbosch, South Africa)	
Effect of spatial variability on the estimation of the soluble salt content in a drip-irrigated saline loam soil	361
Morris, J., <i>see</i> Hess, T.M. and Morris, J.	
Mostaghimi, S. McMahon, P.C. (Blacksburg, VA, U.S.A.) and Lembke, W.D. (Urbana-Champaign, IL, U.S.A.)	
Surface and subsurface drainage simulations for a claypan soil	211
Nieuwenhuis, G.J.A., <i>see</i> Thunnissen, H.A.M. and Nieuwenhuis, G.J.A.	
Pal, D., <i>see</i> Singh, P.V. et al.	
Palanisami, K. and Flinn, J.C. (Manila, The Philippines)	
Impact of varying water supply on input use and yields of tank-irrigated rice	347
Peralta, R.C. (Logan, UT, U.S.A.) and Kowalski, K. (Newington, CT, U.S.A.)	
Optimal volumetric and economic groundwater mining for the Arkansas Grand Prairie	1
Piper, B.S. (Oxon, Great Britain)	
Sensitivity of Penman estimates of evaporation to errors in input data	279
Rao, N.H., Sarma, P.B.S. and Chander, S. (New Delhi, India)	
Irrigation scheduling under a limited water supply	165
Rasiah, V. (Ontario, Canada) and Kohl, R.A. (Brookings, SD, U.S.A.)	
Soybean root water uptake in two soils	387
Rose, C.W., <i>see</i> Eastham, J. and Rose, C.W.	
Sallem, L.H., <i>see</i> Al-Khafaf, S. et al.	
Sarma, P.B.S., <i>see</i> Rao, N.H. et al.	
Sarma, P.S. (Hyderabad, India) and M.V.K. Sivakumar (Niamey, Niger)	
Response of groundnut to drought stress in different growth phases	301
Sauer, T.J., <i>see</i> Scotter, D.R. et al.	
Scotter, D.R., Clothier, B.E. and Sauer, T.J. (Palmerston North, New Zealand)	
A critical assessment of the role of measured hydraulic properties in the simulation of absorption, infiltration and redistribution of soil water	73
Sharpley, A.N., Smith, S.J. and Ahuja, L.R. (Durant, OK, U.S.A.)	
Soluble potassium transport in agricultural runoff water	37
Singh, P.V., Pal, D., Varade, S.B. (Aurangabad, India) and Kar, S. (Kharagpur, India)	
Determining percolation losses of packed clay soil from tensiometer data	189

Singh, V.P. and Yu, F.X. (Baton Rouge, LA, U.S.A.)	
An analytical closed border irrigation model. I. Theory	223
Singh, V.P. and Yu, F.X. (Baton Rouge, LA, U.S.A.)	
An analytical closed border irrigation model. II. Experimental verification	243
Sivakumar, M.V.K., <i>see</i> Sarma, P.S. and Sivakumar, M.V.K.	
Smith, S.J., <i>see</i> Sharpley, A.N. et al.	
Strelbel, O. and Böttcher, J. (Hannover, Fed. Rep. Germany)	
Solute input into groundwater from sandy soils under arable land and coniferous forest:	
Determination of area-representative mean values of concentration	265
Thomas, A.W., <i>see</i> Mills, W.C. et al.	
Thunissen, H.A.M. and Nieuwenhuis, G.J.A. (Wageningen, The Netherlands)	
An application of remote sensing and soil water balance simulation model to determine the effect of groundwater extraction on crop evapotranspiration	315
Varade, S.B., <i>see</i> Singh, P.V. et al.	
Wesseling, J. (Wageningen, The Netherlands)	
Book review of <i>Journal of Production Agriculture</i>	208
Wood, J.D., <i>see</i> Lomax, K.M. et al.	
Yu, F.X., <i>see</i> Singh, V.P. and Yu, F.X.	
Yu, F.X., <i>see</i> Singh, V.P. and Yu, F.X.	

3
9

**CONTENTS OF AGRICULTURAL WATER MANAGEMENT,
VOLUME 15**

Vol. 15 No. 1

November 1988

Optimal volumetric and economic groundwater mining for the Arkansas Grand Prairie R.C. Peralta (Logan, UT, U.S.A.) and K. Kowalski (Newington, CT, U.S.A.)	1
Treatment of spatially variable groundwater levels in one-dimensional stochastic unsaturated water-flow modelling J.W. Hopmans (Wageningen, The Netherlands)	19
Soluble potassium transport in agricultural runoff water A.N. Sharpley, S.J. Smith and L.R. Ahuja (Durant, OK, U.S.A.)	37
Rainfall probability forecasts used to manage a subdrainage-subirrigation system for water-table control J.R. Cooper (Durant, OK, U.S.A.) and J.L. Fouss (Baton Rouge, LA, U.S.A.)	47
Rainfall retention probabilities computed for different cropping-tillage systems W.C. Mills (Tifton, GA, U.S.A.), A.W. Thomas and G.W. Langdale (Watkinsville, GA, U.S.A.)	61
A critical assessment of the role of measured hydraulic properties in the simulation of absorption, infiltration and redistribution of soil water D.R. Scotter, B.E. Clothier and T.J. Sauer (Palmerston North, New Zealand)	73
Pasture evapotranspiration under varying tree planting density in an agroforestry experiment J. Eastham and C.W. Rose (Brisbane, Qld., Australia)	87
Announcement.....	107
Guide for Authors.....	109

Vol. 15, No. 2

December 1988

Water control and the maintenance imperative: evidence from Nepal J.C. Baxter (Tempe, AZ, U.S.A.) and W.R. Laitos (Fort Collins, CO, U.S.A.)	115
Enhancement of crop yields from subsurface drains with various envelopes N. El-Mowelhi, A. El-Bershamgy (Giza, Egypt), G.J. Hoffman (Fresno, CA, U.S.A.) and A.C. Chang (Riverside, CA, U.S.A.)	131
Estimating the value of flood alleviation on agricultural grassland T.M. Hess and J. Morris (Bedford, Great Britain)	141
Crop coefficients for peanut evapotranspiration R.L. Elliott, S.L. Harp, G.D. Grosz and M.A. Kizer (Stillwater, OK, U.S.A.)	155
Irrigation scheduling under a limited water supply N.H. Rao, P.B.S. Sarma and S. Chander (New Delhi, India)	165
Irrigation scheduling and cantaloupe yield model for the Jordan Valley A.M. Battikhi (Amman, Jordan) and R.W. Hill (Logan, UT, U.S.A.)	177
Determining percolation losses of packed clay soil from tensiometer data P.V. Singh, D. Pal, S.B. Varade (Aurangabad, India) and S. Kar (Kharagpur, India)	189
Emmission characteristics of porous tubing K.M. Lomax, J.D. Wood and F.S. Guacelli (Newark, DE, U.S.A.)	197

Book Reviews

Surface irrigation theory and practice	205
Irrigation development planning	207
Production agriculture.....	208

Vol. 15 No. 3**May 1989**

Surface and subsurface drainage simulations for a claypan soil S. Mostaghimi, P.C. McMahon (Blacksburg, VA, U.S.A.) and W.D. Lembke (Urbana-Champaign, IL, U.S.A.)	211
An analytical closed border irrigation model. I. Theory V.P. Singh and F.X. Yu (Baton Rouge, LA, U.S.A.)	223
An analytical closed border irrigation model. II. Experimental verification V.P. Singh and F.X. Yu (Baton Rouge, LA, U.S.A.)	243
Distillation irrigation: a low-energy process for coupling water purification and drip irrigation J. Constantz (Menlo Park, CA, U.S.A.)	253
Solute input into groundwater from sandy soils under arable land and coniferous forest: Determination of area-representative mean values of concentration O. Strelbel and J. Böttcher (Hannover, Fed. Rep. Germany)	265
Sensitivity of Penman estimates of evaporation to errors in input data B.S. Piper (Wallingford, Great Britain)	279
Response of groundnut to drought stress in different growth phases P.S. Sarma (Hyderabad, India) and M.V.K. Sivakumar (Niamey, Niger)	301

Book review

Efficient use of irrigation water in arid and semiarid regions	311
--	-----

Announcements

313

Vol. 15, No. 4**July 1989**

An application of remote sensing and soil water balance simulation models to determine the effect of groundwater extraction on crop evaporation H.A.M. Thunissen and G.J.A. Nieuwenhuis (Wageningen, The Netherlands)	315
PUMPMOD: A simulation model for multipump rice irrigation systems A.L.A. Galang and S.I. Bhuiyan (Manila, The Philippines)	333
Impact of varying water supply on input use and yields of tank-irrigated rice K. Palanisami and J.C. Flinn (Manila, The Philippines)	347
Effect of spatial variability on the estimation of the soluble salt content in a drip-irrigated saline loam soil J.H. Moolman (Stellenbosch, South Africa)	361
Maize root development under various levels of salinity and water distribution S. Al-Khafaf, K. Al-Janabi, I.A. Hussain, F.S. Manki and H.L. Salim (Baghdad, Iraq)	377
Soybean root water uptake in two soils V. Rasiah (Ontario, Canada) and R.A. Kohl (Brookings, SD, U.S.A.)	387
Author Index Volume 15.....	395
Contents of <i>Agricultural Water Management</i>, Volume 15	399

